



General Description

This Data Book contains information about the touchscreen panels used in the netDisplay product line. ZF MicroSystems netDisplay OEM computers integrate a PC/AT compatible motherboard and LCD Flat Panel Display into a compact, reliable assembly ideal for embedded applications. The touchscreen option for the netDisplay allows user interface without the need for an external keyboard or keypad.

Features

Resistive Technology - proven to be the best among touchscreen technologies.

Five-Wire Technology –most reliable and provides the longest life.

Glass Panel - Screen substrate is glass, made specifically to fit the panel sizes used in netDisplay products.

High Resolution Controller – integral to the netDisplay is a 4096x4096 serial port controller giving the touchscreen the resolution necessary for accurate cursor movement.

High Sampling Rate – Transmits over 200 coordinates per second.

Screen Calibration – The configuration utility (ELOCALIB) allows easy touchscreen calibration in all VGA modes.

Product Specification

Technology	Resistive Overlay	Communication Speed	300 - 19200 Baud
Panel Thickness	2.67 mm nominal	Life Time	> 35Million Touches
Panel Hardness	3H	Touch Accuracy	> 99%
Transparency	80% ±5%	Controller Power	DC 5V ± 10% / 55mA standby 160mA avg. w/touch 240mA peak
Resolution	4096 x 4096	Operational Temp.	-10 ~ 50°C
Activated Force	less than 113g	Operational Humidity	0 ~ 90% RH at 35°C
PC Interface	Serial Port	FCC Compliance	Class A Compliant

Table 1.

Application Programming

The touchscreen drivers emulate standard mouse operations. The touchscreen can be programmed as standard mouse. Applications with mouse operations should run with the touchscreen without any customization once the drivers are properly installed.

S/W Installation

Before you proceed to install the touchscreen software, please review the readme.txt file on the driver CD. Also read and understand the procedures described below. Amendments to the installation notes in the readme file supercede these instructions if they are different.

Included in your netDisplay are touchscreen drivers for DOS, Windows3.x and Windows95. These drivers are shipped on the ELO Touchscreen Driver CD, ZF MicroSystems part # 9250-0022-00

Installation of the touchscreen drivers will require the presence of a 3.5" floppy drive in your system. Follow the installation instructions for the driver appropriate to your chosen operating system:

DOS

The DOS drivers are located in the "MonMouse\DOS-Win31" directory of the ELO Touchscreen Driver CD. To install the DOS touchscreen driver:

1. Insert the ELO Touchscreen Driver CD into a CD ROM.
2. Insert a blank floppy into the floppy drive.
3. Copy all files from the "**MonMouse\DOS-Win31**" directory on the ELO Touchscreen Driver CD to the floppy diskette.
4. Type **INSTALL** from the **A:**.
5. Select **DOS Express Installation**.
6. Select Touchscreen Controller Interface: **SERIAL**
7. Select Serial Port Where the Controller is Connected: **COM2**
8. The display will show:

The E271-2210 controller has been detected.
Serial Port: COM2
Controller Revision level: Elo Inc. 1.4-0.0
Touchscreen type: AccuTouch
Power-on settings from: Jumpers
Controller power-on self-tests passed.
9. The Installation program now copies files to the **C:\TOUCH** directory.
10. When the driver installation is complete, type **GO** to calibrate the touchscreen.

Windows3.x

The Windows3.x drivers are located in the "**MonMouse\DOS-Win31**" directory of the ELO Touchscreen Driver CD. The drivers are installed from DOS. To install the Windows3.x touchscreen driver:

1. Insert the ELO Touchscreen Driver CD into a CD ROM.
2. Insert a blank floppy into the floppy drive.
3. Copy all files from the "**MonMouse\DOS-Win31**" directory on the CD to the floppy diskette.
4. Type **INSTALL** from the **A:**.
5. Select **Windows Express Installation**.
6. Select Touchscreen Controller Interface: **SERIAL**

7. Select Serial Port Where the Controller is Connected: **COM2**
8. The display will show:
 - The E271-2210 controller has been detected.
 - Serial Port: COM2
 - Controller Revision level: Elo Inc. 1.4-0.0
 - Touchscreen type: AccuTouch
 - Power-on settings from: Jumpers
 - Controller power-on self-tests passed.
9. The Installation program now copies files to the **C:\TOUCH** & **C:\WINDOWS** directories.
10. When the driver installation is complete, type **GO** to calibrate the touchscreen.

Windows 95

The Windows95 drivers are located in the "**MonMouse\Win95**" directory of the ELO Touchscreen Driver CD. To install the Windows95 touchscreen driver:

1. Insert the ELO Touchscreen Driver CD into a CD ROM.
2. Insert a blank floppy into the floppy drive.
3. Copy all files from the "**MonMouse\Win95**" directory on the CD to the floppy diskette.
4. From Win95, run **A:SETUP.EXE**.
5. The Installation program now copies files to the **C:\TOUCH** & **C:\WINDOWS** directories.

Reference Materials

■ SystemCard Data Book	9100-0017-00
■ 104Card/EV Data Book	9100-0032-00
■ netDisplay Data Book	9100-0031-00
■ Hitachi 8.2" Flat Panel Specifications	9110-0002-00
■ Hitachi 12.1" Flat Panel Specifications	9110-0003-00

MANUAL REVISIONS

Page	Revision	Date
All	Release x1	10//98
All	Release 2	10/19/98
All	Release 3	10/26/98
All	Release 4	

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ZF MicroSystems, Incorporated

1052 Elwell Court • Palo Alto, California 94303

Tel: (650) 965-3800 Fax: (650) 965-4050

Home Page: <http://www.zfmicro.com>

Email: support@zfmicro.com

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